

FEMA PUBLIC ASSISTANCE

DEBRIS MANAGEMENT PLANNING &
THE DEBRIS MANAGEMENT PLAN
AND
PUBLIC ASSISTANCE PILOT PROGRAM



Course Overview

- Debris Management Planning
 - What is debris
 - Sources
 - Types
 - Debris Activities
 - Debris Issues
- · The Debris Management Plan Components
- The PA Pilot Program
 - Four Procedures
 - Debris Plan Review
- Additional Information



Debris, (deh bree') n. [MF debrie, L debrare]: residue from a disaster which would normally have little or no value, but upon a presidential declaration, will cost a great deal of money.



Debris

- Usually the largest component of FEMA Disaster Public Assistance (more than 75% of PA cost or \$156 Mil for Isabel in VA)
- Requires experienced & knowledgeable personnel to guide initial planning.
- · Requires a team effort.





Floods

Farmulales .













Hazardous Material

Hurricane Katrina - LA





Hurricane Floyd 1999





Debris Activities

 Debris Clearance - Move debris off roadway surface.

 Debris Removal - Load, haul, reduce, and dispose. Reduction / staging sites key to scoping the mission. Includes reporting & tracking. Units reported in cubic yards or tons (documentation of quantity required by FEMA).



Debris Issues

- Who is responsible?
- Is there a back-up agency responsible?
- What are the State/local agency roles & responsibilities?
- Is available equipment adequate to clear debris from critical access routes?



What are we dealing with?

- Type of Event?
- Type of Debris?
- Contaminants?
- Quantities?
- Evidence?



- · Typical Hurricane Debris Make-up
 - 30% clean woody debris
 - 70% mixed Construction & Demolition (C&D)
 - · 42% recyclable if sorted
 - 5% soil
 - 18% metals
 - · 38% landfilled
- Curbside Collection
 Requirements Segregation



- · Haul Routes?
- Haul distance?
- · Where is the final disposal?

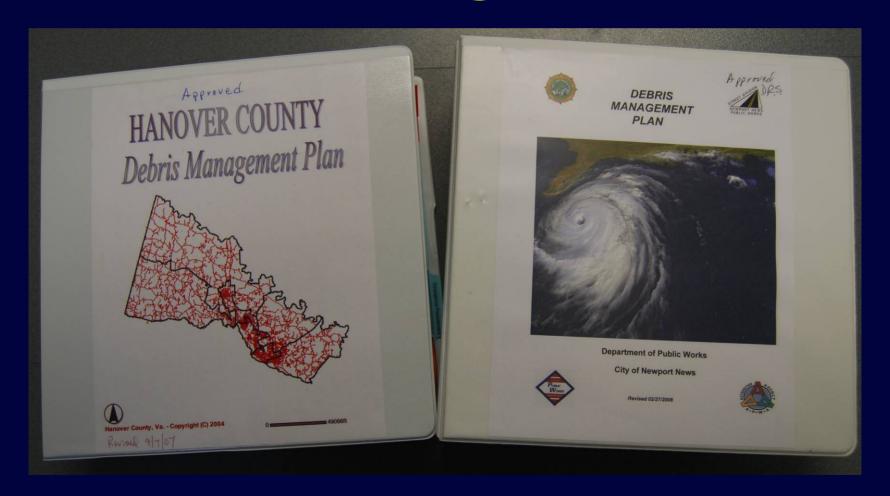


Debris Staging & Reduction Sites

- · Public land is preferable
- · Identify ahead of time
- · Target 50 200-acre tracts
- Leasing possible w/FEMA approval



Where to start??? A Debris Management Plan





DEBRIS MANAGEMENT PLAN

- Establishes procedures and guidelines for managing disaster debris in a coordinated, environmentally responsible, and cost effective manner
- Expedites response & recovery activities
- Ensures effective use of resources
- Ensures efficient management of costs
- Mitigates impacts to humans and environment
- Returns community back to normalcy quicker



DEBRIS CLEARANCE PRIORTIES

- Response
 - Establish access to disaster impact area
 - Based on critical facilities and associated transportation routes
 - Remove debris obstructing access to critical facilities and posing immediate threat to public health and safety



 Provides significant psychological boost to impacted communities



DEBRIS REMOVAL PRIORITIES

Recovery

- Remove debris from residential neighborhoods and public areas
- Performed after response priorities have been accomplished





TEAM STRUCTURE

- Facilitates
 Coordination/Execution of Plan
- Includes support from a variety of internal departments as well as external agencies



Roles and Responsibilities

- Command and Control
 - Major decisions
 - Coordinates overall response
- Administration
 - Funding/Accounting
 - Collects/maintains documentation regarding resources utilized (e.g., personnel, supplies, equipment, contract services etc.)
- Contract Procurement
 - Preparation of bid solicitations, evaluation of bids and negotiation of contract agreements
 - Change Orders/Amendments

FEMA Roles and Responsibilities

Legal

- Contract Review
- Right of Entry/Hold Harmless Agreements
- Leasing
- Claims

Operations

- Contract Supervision/Coordination
- Project Management
- Sector Management
- Reduction Site Management

FEMA Roles and Responsibilities

- Engineering and Planning
 - Technical Support
 - Debris Quantity/Cost Estimates
 - Supports development of contract Scopes of Work
 - · Plans/Permits
- Public Information
 - Strategy
 - Press Releases
 - Public Notices/Information
 - Media Coordination



Debris

- Quantity and type of debris will be function of:
 - Type of event
 - Magnitude, intensity and duration
 - Location



FEMA Estimating Debris Quantity

- Historical Data
- USACE Debris Projection Model Projections
- Neighboring/Similar Jurisdictions
- Virginia Department of Forestry Debris Estimating Technique for Urban Environments
- Consultants / Private Vendors







Resource Inventory/ Needs Assessment

- Evaluate existing resources/capabilities in context of projected/estimated quantities
 - Force Account/temporary labor
 - Contract Services
 - Mutual Aid
 - Volunteer Organizations
 - Technical Resources
 - Supplies/Equipment
 - Recycling/disposal capacity
 - Regional, state resources

FEMA Debris Collection Methods

- · Curbside
- Community Drop-Off Bins or sites
- Collection of Segregated Waste at curbside or designated areas
 - Household Haz. Waste
 - White Goods
 - Electronic Waste
 - Vegetative
 - C &D



Collection Schedule

- Number of passes
- Schedule of passes
- Integrate Recycling considerations into schedule
 - Types
 - Collection Approach
 - End use specifications
 - Markets



FEMA Temporary Debris Storage and Reduction Sites

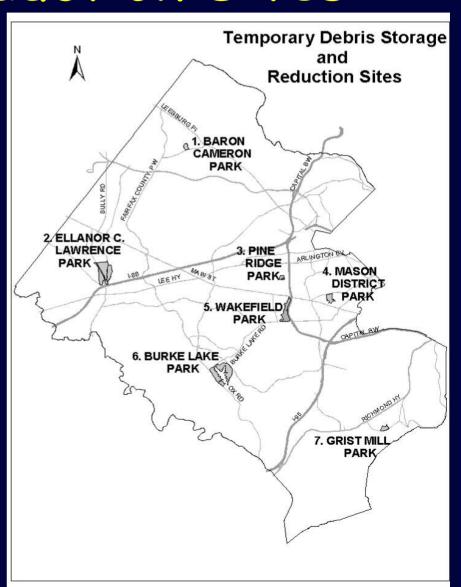
- Locations
- Ownership: Public/ Private
- Size/topography
- Transportation good ingress/egress
- Environmental Reg.
- Permits

Entrance E&S

Land Use Burning

Freon

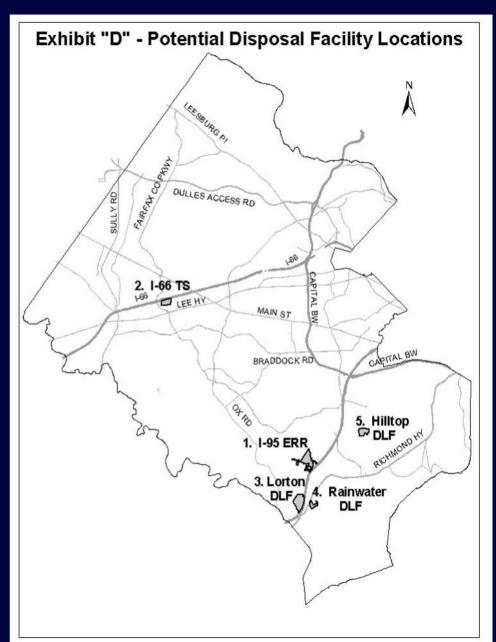
- Establish baseline to document pre-existing conditions





Disposal Facilities

- Considerations
 - Current Landfills
 - Location
 - Capacity for disaster debris
 - Status
 - Impact on projected life of landfill





Volume Reduction

- Burning
- · Grinding
- · Baling Reduction
- · Compatibility with adjacent land uses









Contracted Services

- Procurement requirements & procedures
- Potential Contracts
 - Debris Removal
 - Recycling Collection
 - Construction & Restoration of Debris Management Sites
 - Management of Debris Management Sites
 - Monitoring Services



Contract Types

- Time and Materials FEMA eligibility typically limited to the first 70 work hours
- Unit Price cost per CY or cost per Ton
- Lump Sum one price for a WELL defined scope of work



Monitoring Field Operations

- Suggest that only eligible debris be collected
- Measure/certify truck capacities
- Ensure trucks are not artificially loaded
- Meet permit requirements
- Monitor pickup, reduction, & disposal





Load Tickets

- Complete & physically control load tickets
- Need to indicate location debris was picked up and note the last load from that particular site
- Need to indicate type of debris
 - i.e., Vegetative, Construction & Demolition (C&D), Mixed, etc.
- Do not issue tickets for ineligible debris such as piles of tires, automobile or truck frames, etc. that was not caused by the disaster
- Protect as if it were your checkbook as it represents a form of payment verification.

					\equiv
Load Ticket		Ticket No. 0012345			
Municipality (Applicat	Pri	Prime Contractor			
	Su	Sub-Contractor			
Truck Information					
Truck No	Capacity				
Truck Driver (print legibly)					\dashv
Track Driver (print legibly)					
Loading Information Time Date Inspector/Monitor					
Loading	Time	Date		Inspector/Monitor	\dashv
Loading					
Location (Address or Cross Streets)					
When Using GPS Coordinates use Decimal Degrees (N xx.xxxxx)					
N		W			
Unloading Information					
Debris Classification		Estir	nate	ted %, CYs, or Actual Weight	_
☐ White Goods					
☐ HHW					
☐ Other* See Bel	ow				
	Time	Date		Inspector/Monitor	
Unloading					
DMS Name and Loca				1	_
DINO Name and Location					
*Other Debris Explan		Originals Applicant		_	
		Original: Applicant Copy 1:			
		Copy 2:			
			Copy 3:		



Private Property Debris Removal

- · Potential Types
 - Residential
 - Gated
 - Mobile Home Parks
 - Marinas
 - Commercial Property
- Applicable Codes
 - Health and Safety
 - Solid Waste
 - Building and Safety

- Pre-approved by FEMA the exception not the rule
- Legal Procedures required to enter property
 - Property Owner Permission
 - Right-of-Entry
 - Hold Harmless
 - Indemification
 - Executive Order
 - Court Order



Demolition of Private Property

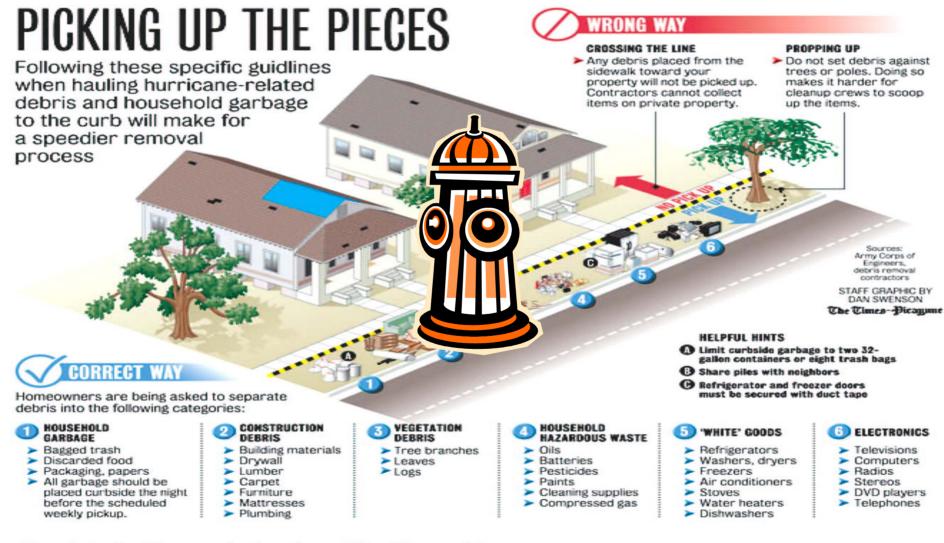
- FEMA Approval required for reimbursement
- Determine conditions/criteria under which local government can condemn, demolish structures
 - Immediate public health/safety threats
 - Public health and safety, building codes, fire codes



Public Information

- · Placing debris curbside
- Segregation of materials
 - Household Hazardous Waste
 - White Goods
 - Vegetative
 - C & D
- · Debris pick-up schedules
- Keeping debris piles away from fire hydrants

Curbside Pickup



Reprinted with permission from The Times-Picayune



FEMA Health and Safety

- Establish minimum health & safety standards for all debris activities
 - Protect workers from exposure to HAZMAT
 - Identification of potential hazards at loading and reduction sites
 - Guidelines for the use of PPE
 - Applicant can use established County or City Health & Safety Policy



- Implementation Strategy
 - Dissemination of policy
 - Compliance monitoring
 - Corrective actions if standards are not met.



Regional Debris Contracts/State Plan



- Request for Proposals being developed in coordination with VDOT and General Services
 - Debris Removal Services include Regional Estimates based on USACE model
 - Debris Monitoring Services
- Regional Framework
- Update of State Debris Management Annex



PA Pilot Program

- Approved by Congress with 2006 legislation
- Effective June 1, 2007 thru Dec.31, 2008
- Participation open to all state and local governments and federally recognized Indian Tribes
- Private non-profit (PNP) not eligiblePilot
- Program Procedures apply only to debris removal (Cat
 A) and Permanent Work (Cat C-G).
- Four <u>separate</u> procedures available under the Pilot Program.
 - 1. Grants Based on Estimates
 - 2. Increased Federal Share
 - 3. Debris Recycling
 - 4. Force Account Labor



FEMA 1. Grants Based on Estimates

- ·Categories A, C-G
- ·Large Projects ≤ \$500K



- · Paid based on estimate
- · Payment of Federal Share as soon as practicable after approval
- Work must be completed
- Applicant can keep underruns
- · No appeal process



2. Increased Federal Share Incentive



- Five percent increase in Federal Share with:
 - -FEMA-approved
 Debris Management
 Plan and
 - -At least two prequalified debris removal contractors identified prior to a disaster.
- Applicable to Category A work



3. Debris Recycling



- Applicant retains revenue from the salvage value of recyclable disaster debris.
- · Applicable to Category A work



4. Force Account Labor



- Reimburse the straight- or regular-time salaries and benefits of staff performing debrisrelated activities.
- Applicable to Category A work

FEMA PA Pilot Program

Goals of the PA Pilot included in the legislation:

- Reduce costs to the Federal Government;
- Increase administrative flexibility; and
- · Expedite the provision of assistance to States and local governments.

FEMA to report back to Congress by Mar.31, 2009



FEMA PA Pilot Program Increased Federal Share

- Debris Plan must be adopted by jurisdiction
- Submitted to FEMA for approval prior to or once disaster is declared
- FEMA approval is based on FEMA checklist

- Pre-qualification of contractors involves:
 - Identifying/evaluating contractors abilities to perform debris work
 - Compliance with applicants procurement requirements

- Does the plan outline the roles and responsibilities of the various functions identified (Public Works, Finance, and Solid Waste Departments, etc.)?
- 2. Does the plan address health and safety procedures in accordance with State/Local health and safety standards/requirements?
- 3. Does the plan identify procedures for acquiring required regulatory permits?
- 4. Does the plan address the basis for planning which include assumptions for various events and forecasting/modeling for debris volumes?
- 5. Does the plan include priorities for the clearance, collection, and disposal of debris?
- 6. Does the plan address recycling?
- 7. Is there a process for the collection and disposal of hazardous waste and/or white goods?

FEMA DEBRIS PLAN CHECKLIST

- Does the plan address debris monitoring of the pickup 8. sites, Debris Management Sites (DMS) or Temporary Debris Storage and Reduction Sites (TDSR) and final disposal?
- 9. Does the plan identify DMS' or TDSRs' and potential landfills for final disposal to include operation and site management procedures and staffing?
- 10. Does the plan address the environmental requirements?
- Does the plan address contracting/procurement procedures?
- 12. Does the plan address the authority and processes for private property debris removal?
- Does the plan address the dissemination of information to the general public and media?
- 14. Does the applicant have a list of pre-qualified contractors?
- 15. Does the applicant have documentation demonstrating how the list was obtained?



FEMA Additional Information

- www.fema.gov/government/grant/pa/index.shtm
 - Policy and Guidance
 - Debris Management "Debris Management Guide FEMA 325"
 - Application Process
 - Roles and Responsibilities
 - Resources and Tools
 - Reference Topics
 - Facts and Statistics
- www.fema.gov/government/policy/papilot.shtm
 - Pilot Program Debris Checklist
 - Suggested Debris Plan Outline
 - Pilot Program Guidance
- VDEM web page
 - Template for Debris Management Plans
 - Samples of Approved VA Debris Management Plans Chesapeake, Hanover, Fairfax Co, & Newport News



CONCLUSION:

"Five minutes before the party is not the time to learn to dance!"

Snoopy

circa 1978